

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Edward J. Warhover" <kf9xy@apci.net>
Subject: [1987] 1N1492 Diode Replacement
Message-ID: <199608021207.HAA30342@hilly.apci.net>

Thanks to all who responded to my question about a replacement for the 1N1492 Diode. What a list ! I really appreciate the help. For anyone who may be interested, the answer is an NTE 117 or a 1N4005.

Tnx es 73/72
Ed Warhover KF9XY

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Roy Boggs <rboggs@pcc-uky.campus.mci.net>
Subject: [1982] 2nd try: Need help on poly var caps
Message-ID: <2.2.32.19960802041020.00689600@pcc-uky.campus.mci.net>

Hello,

Still haven't gotten a single response to my plea for help on figuring out the little poly variable caps from transistor radios. Guess I could just start soldering, but surely some of u old SLT builders could tell me how the six tabs (2 are common) are connected to produce 2 sections. Others have emailed me and asked me to forward the info if I ever find out.

I'm gonna make it easier this time;(fill in the spaces) and hit return email:

Roy, (The tabs are numbered c1-c4 ; commons not numbered)
(1)Connect tab ___ with tab ____ . This will produce the high pF section.
(2)Connect tab ___ with tab ____ to produce the low pF section.
There.

I know this is nowhere near as complicated as Paul Harden's radio analysis but I would like to see if this group really wants to help beginners with simple questions. There were about a million threads to code/no-code, ARCI name change, soldering aluminum, etc so I know the list is being read. My next simple question will be "what kind of adjustable ferrite core is G3YCC referring to on his web page that is used for the portable end fed half-wave antenna in a film canister? And the 50pF capacitor...what rating? Will one of those lil nitro-glycerine pill sized ones do, or a miniature doorknob (hi)?" I'll ask that another time though.

Thank you,
Roy KE4KDT

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: herr@ridgecrest.ca.us (Michael Herr)
Subject: [2019] Another adventure....
Message-ID: <v01530504ae294d0e787c@[199.120.150.42]>

Well fellow Adventure Radio mates...

I am off on another adventure into the wilds. This one is more low keyed. Going turtle camping (car camping) in the Sierra's about 20 miles west of Tahoe off of I-80. We should end up at Sterling Lake. Probably will do some day hiking but thats it, otherwise just catching up on sleep and reading. Anyway, look for me from 5 to 7 August on 40, both at 7040 and ssb at either 7180 or 7285. On 4,8 and 12 August I'll be mobile, most likely SSB and QRO. Looking for a chat anyway.

72

Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: earwax@indy.net
Subject: [1989] ARCI
Message-ID: <199608021210.HAA27159@IndyNet.indy.net>

Hello,

Has there been an QQ published since Dayton?

TIA,

Charlie

Charlie Kuhn, N9NVV
earwax@indy.net
Censor Yourself, Not Others
All Disclaimers Apply

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Bill Acito 02-Aug-1996 1332 <acito@asdg.ENET.dec.com>
Subject: [2012] Autek: Measuring L's
Message-ID: <9608021734.AA18469@us1rmc.bb.dec.com>

I've been building a 30-40/SW30, and have been checking my torroid winding with the L meter on the Autek analyzer.

Question: what frequency should I set the Autek to to read the inductors? I can get a wide range of L by varying the frequency.

b

. - I own my own words -
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS qrp-ne qrp-1 arci norcal amsat-na arrl-life

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2005] Dipole, SWR, and Coax
Message-ID: <Pine.SUN.3.94.960802115422.16178D-100000@access1.digex.net>

I have a friend who insists that one must match the SWR of a dipole to the 50 ohm coax. If you don't do this you are losing power. He is very adamant about this. I have never had the courage to ask him a very simple question:

>From everything I've read, a dipole designed for a given frequency has an impedance of 75 ohms, coax is designed for 50 ohms (OK OK 52 ohms - nit pickers ;-) so, this translates into an SWR of about 1.5:1.

Which is better, designing for 75 ohm impedance (the best for radiating the energy) or 1:1 SWR (the best for getting all the energy to the antenna the first time)?

There are a number of reasons we're getting our heads mixed up about this stuff, one is that manufacturers are not placing

matching circuits in the rigs any longer, they are designing for a 50 ohm impedance match and not much deviation from an SWR of 2:1 (some even less!) & another is that we've forgotten - or never knew- how to use SWR information.

I'm not going to go into it here. If you want to look it up, check your copy of "Now You're Talking" or "Reflections" and do the calculations for about 10 reflections for an SWR of 3:1 and see what you end up with for total output.

Oh, the answer to the question above is this: For good quality coax -read low loss at your frequency- there is no noticeable difference at either station. In fact we can go further, there will be no noticeable difference even with an SWR of 3:1. (I could go even further, but I won't, I think you get the point.) Now, if you don't believe me you'd better start reading.

So, why design a dipole antenna for an SWR of 1:1? I do it so I don't have to take an ATU in the field with me. But, for other than that special case -and I only get close & don't care as long as the rig will handle an SWR of 2 or 3:1- I build them as long as I need & use an ATU for everything else.

You're biggest loss is likely to be in a poorly designed ATU, not the coax & definitely not in ladder line. (Ooh, now there's one for you, 450 ohm ladder line & a 75 ohm dipole give an SWR of 6:1 & yet no noticeable difference? Yup! Do the calculations and see. Use 7.040 MHz.)

have fun & enjoy, it's a hobby!
72 & 73 de KE3FL/Phil
;-)

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2009] Equipment calibration
Message-ID: <320234f8.pandora@pandora.lugs.org.sg>

Hi,

Can anyone advise me as to what is a good and accurate calibration standard for rigs and counters etc.?

Is there a standard way of building a standard signal source? Thanks.

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Dick Schneider <74602.3317@CompuServe.COM>
Subject: [2016] FS: KNWD TS50 MOBILE HF
Message-ID: <960802210226_74602.3317_EHH58-2@CompuServe.COM>

FOR SALE: KENWOOD TS50S MOBILE HF TRANSCEIVER
(RE-POSTING)

160-10 Meters. Superb travel rig.

10-50-100 Watts Output. CW, SSB, FM, AM.

Simple mods available to crank power down to QRP levels. (Just turning trim pots required)

500Hz CW filter installed.

Includes MC47 Multi-Function hand mic, mobile mounting hardware, and power cord.

This rig has not been installed as a mobile unit. Its in showroom condition.

Original box (for those who care).

Terrific rig.

\$700 INCLUDES insure shipping to US.

72/73 Dick/AB0CD..

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "David P. Drake" <dpd@dtpx2.ncifcrf.gov>
Subject: [2004] fwd>> New 10GHz FM TV DX record 50% QRP

Message-ID: <19960802115002dspd@dtpsys.ncifcrf.gov>

The following is posted for John, W3HMS, for the benefit of those receiving the digest and with mailers that do not handle attached files.

Dave - n3lsb

=====

John Jaminet
W3HMS
717-697-3633

28 July 1996

Note: The following article was received by John Jaminet, W3HMS by Internet from Michel Vonlanthen, HB9AFO. It appears by courtesy of the "Swiss ATV Society" and their News, of which HB9AFO is also the President and Editor. John, W3HMS is the first American member.

NEW WORLD RECORD ON 10 GHZ ATV: 360 miles (591 km)
by Michel Vonlanthen, HB9AFO of near Lausanne, Switzerland.

On 18 May 1996, F1JSR and HB9AFO concluded an amateur television QSO of 360 miles/591 km between the Island of Corsica and Spain which is a new world record on the band and in this mode of FM television.

Serge, F1JSR of near Lake Geneva in France was staying for one week on Corsica, in grid square JN42RQ, in the Serra di Pigno. His altitude was 3139 ft/960 meters above sea level. His equipment was a DRO synthesized transmitter on 10.450 MHz followed by a travelling waves tube amplifier delivering 20 Watts to an "Ikea" parabolic antenna of 16 inches/40 cm in diameter. For reception, he had an offset feed antenna of 33.5 inches/85 cm, an un-modified Astra satellite TV Ku band LNB and a home-made direct detection ATV FM receiver.

For Michel, HB9AFO, in Spain, it was necessary to try several places starting in the region of Toulon, France, and ending with Sierra de Montseny near Barcelona, Spain in grid square JN11ET at an altitude of 5395 ft/1650 meters above the sea level. He used a DRO transmitter on 10.480 MHz followed by a 1 Watt transistorized power amplifier driving an "Ikea" 16 inch/40 cm parabolic antenna. His receiver system consisted of a 39.5 inch/1 meter diameter parabolic antenna with high precision azimuth/elevation gearing, a modified Astra Ku band Sat TV LNB with a noise factor of 0,7 dB and a modified AR3000 receiver followed by a narrow band ATV FM demodulator in parallel with a normal 12V operated tv-satellite receiver.

The QSO was completely bi-directional (DUPLEX) with the signals varying between P0 and P5 with full color. There were very rapid level variations due probably to the strong wind, the fog and the intermittent rain in Corsica.

Two days before, the same mode FM-ATV QSO was made with Michel, HB9AF0 on the Pic de Nore, in the Department of Tarn in France in grid square JN13FJ at a distance of 350 miles/574 km. In both cases, the QSOs lasted about two hours and the time was close to sunset.

A detailed report will be published in the French and Swiss ATV associations magazines, "B5+" published by the French association and in the "SWISS ATV NEWS".

A PAL VHS video cassette is now in production and will be obtainable from: Swiss ATV, P.O. Box 301, 1024 Ecublens, Switzerland. (Ed. Note: W3HMS will attempt to get a NTSC version as before for one of our future meetings.)

73, Michel Vonlanthen, HB9AF0, 21 May 1996

END

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: ukii@megsinet.net (ukii)
Subject: [1999] Help with Fiberglass pse.
Message-ID: <01BB805A.54ADAA20@ukii>

Hello again gang.

Yes ,I am once again hitting you up for your infinite wisdom! Please,I am trying to redo a fiberglass vertical antenna (Antron 99). The fiberglass is rough and when I touch it,those little "shiney ,itchy" things get into my skin. I want to recoat it or something..Is there something for that specific purpose? I looked in the local auto parts store,but they only have rosin to harden fiberglass mesh..??? Maybe there is some kind of Spray sealer? Any help would be great! Thank you all very much!
73 de john N9UKX Chgo,IL.

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: leeghee@singnet.com.sg (NG HENG LEE)

Subject: [1986] is my kits QRPP ?

Message-ID: <199608021008.SAA08309@merlion.singnet.com.sg>

hi everyone,

i have bought two kits from RAMSEY ELECTRONICS. there are the HR-20(20m All Mode Receiver) and the QRP-20(20m CW Transmitter).

the HR-20 run on a 9-volt battery but the QRP-20 operates on 12-15 volt DC at 1/4 amp current. i have finish building the HR-20 and a friend of mine is going to help me test and align it. i have yet to build the QRP-20.

can both be consider QRPP ? or do i need to reduce the input voltage to make it a QRPP kits ??

has anyone ever build this two kits before. i am very keen to listen to your experience working and operating it. how far can the QRP-20 work to ? have you modify it to make it operate even better ?? how about the HR-20 ? do you also do some modification to make it better ? has anyone encounter any problem with it ?

i have heard a lot of QRP kits on the market but does anyone out there sell QRPP kits ??

or is there any newgroups strictly on QRPP ? i would love to listen to their stories on operating QRPP. i bet it's a good challenge !

thank you for any comment.

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996

From: ukii@megsinet.net (ukii)

Subject: [1998] Is THIS rig the same as THAT one???

Message-ID: <01BB805A.76564D80@ukii>

Yes,me again.. I am looking forward to building my first kit.

Many of you help me get info on where/what to look into.

One of the guys sent me info on his rigs (which looks nice).

My question... Are those XX-8020 kits all the same,just made by different people? Example NW20 and GQ20. I am kinda goofed up with this... I am looking into the NW20 and wonder if cases,accessories for other XX20's will work with it..

Thanks once AGAIN!

May the DX God reward you !!

73 de john N9UKX Chgo,IL.

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996

From: svecbrdk@well.com (L.Svec, W.Burdick)
Subject: [1996] Log book ideas -- Thanks!
Message-ID: <199608021439.HAA07362@mh1.well.com>

Just an early "thank you" for all of the great ideas for my QRP mini-log/reference. I'm tallying up the responses and trying to figure out how this all is going to fit :)

Seriously, there are too many good ideas. The log would have to be full-size to hold them all, with one of those plastic Chemistry cheat-sheets on every cover crammed with 2-point type.

I'm experimenting with ways that people could add their own info to the log to customize it. Mean time, keep those suggestions coming!

By the way, someone asked how it would fit inside the Sierra. Easy: just pop the latches on the sides and lay it on top of the plugged-in band module. There's well over 1/2" of vertical air inside there. Room for his *and* hers logs. <yuk>

73,
Wayne

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Rod Logsdon <rlogsdon@ix.netcom.com>
Subject: [2021] MFJ-9020 For Sale
Message-ID: <1.5.4.32.19960803033212.006c148c@popd.netcruiser>

MFJ-9020, 20 mtr CW QRP rig with MFJ-4112 Power Pack. Excellent Condition. All original boxes and manuals.

\$150.00 OBO + Shipping.

Rod Logsdon WK9T 708-293-0763

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Dan Halbert <halbert@BBN.COM>
Subject: [2005] most recent QEX: received testing article
Message-ID: <199608021601.MAA21585@halite.Diamond>

In the most recent QEX I got (don't remember if it's July or August '96),

there's a very nice article by KA1CV of the ARRL Lab staff describing how they test receivers. It's relevant to the current lab test discussion on QRP-L, and should help you to understand the issues.

Dan Halbert, KB1RT

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: rcrampton@gtc.itt.com
Subject: [2000] NW8020
Message-ID: <2021e4b0@gtc.itt.com>

Hello all,

I'm just about to buy an NW8020 for 40m. I've found the kit available in multiple places. The best deal I found so far was \$60 from Dan's Small Parts. He's running a special on it right now. This will be a project for a few other people, too, after I'm done.

Has anyone built "Dan's version" of this rig, or know if it's a decent receiver?

Thanks,

Ray Crampton, KN4SK
rcrampton@gtc.itt.com

ITT-GTC, RFIC Designer

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [2008] Ocean State Electronics
Message-ID: <96Aug2.122236-0400edt.65678-14099+190@hooch.CC.Lehigh.EDU>

Gang,

Ocean State Electronics
PO Box 1458
6 Industrial Drive
Westerly, RI 02891

401-596-3080
800-866-6626 (Order Line)
401-596-3590 (FAX)

I requested a catalog and received the 1994/1995 catalog with an addendum noting items that have been discontinued or had price increases. The addendum states there will be a new catalog (1996/1997) coming out this fall.

They list SBL-1 @ \$7.95, SBL-1X @ 9.95, and also carry the MAR series of monolithic amplifiers.

Per the addendum the new shipping/handling fee is \$5.00 (US) and the catalog states the minimum order is \$10.00.

73

Jim N3VXI

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Bob Marsh <bmarsh@hicom.net>
Subject: [1993] Portable Receivers
Message-ID: <32024588.6038@hicom.net>

Hi Everyone,

Bob/KB2SGM here from NNJ. I've been following the messages here for a few weeks now, but this is my first posting.

I'm looking for a good receiver to use with QRP transmitters. My general feeling is that I'd be better off with a single receiver and several transmitters. That way I don't have to re-invent the wheel every time I want to operate on another band. It also appears that transmitters are a LOT simpler to build than transcievers. Low power draw is a major consideration because I want to use it in the field with batt power too.

I've been looking at the new Radio Shack DX-394. Does anyone have any experience with this puppy or the DX 390? It only draws 450 ma, but I don't know about performance. It does have SSB and CW modes, unlike the DX-390 which has a BFO. (It's also twice as expensive, though).

I'd appreciate your thoughts on these or any other recommendations you might have.

tnx es 73 de Bob/KB2SGM

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Dan Halbert <halbert@BBN.COM>
Subject: [2018] QEX article: June '96: Swept RX DR Testing

Message-ID: <199608030019.UAA22880@halite.Diamond>

The QEX article I mentioned in an earlier mail message today is actually in the June 1996 QEX (which I just got in the mail). It is entitled "Swept Receiver Dynamic Range Testing in the ARRL Laboratory", and is by Ed Hare, KA1CV, of the ARRL Lab staff. I will repeat my praise for this clear article.

Dan, KB1RT

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [2022] Teachable Moments
Message-ID: <Pine.OSF.3.95.960802215020.32739A-100000@duke.usask.ca>

Thursday night I was with my 7-year-old daughter while my wife was gone to a meeting. We decided to eat supper in a park. After supper my daughter began playing along with two little boys who had come to the park. I decided while I was waiting to set up my 40-9er and see what kind of action I could hear.

When the boys saw the radio I had an instant crowd of children around me. They all wanted to know what it was, how it worked, how could I talk to people far away etc. I told them how by learning about radios a person could "talk" to people all over the world. "Even Moose Jaw" one child asked? "Even Moose Jaw" I replied. (Moose Jaw is a city about 200mi S. of Saskatoon). They said I was the first person they ever saw to set up a radio in a park.

Later on I was thinking, wouldn't it be great if those boys became OM's because someone took the time to show them a radio (I already have hopes of my daughter becoming a YL).

Brian.

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| "If I had only known, I would have been a locksmith." |
| -- Albert Einstein |
+-----+
```

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [2007] Ten Tec Address
Message-ID: <199608021540.PAA23355@chuck.dallas.sgi.com>

Gang,

Here is the latest info:

>Hi Chuck!
>
>Just wanted to let you know that Ten-Tec finally has gone ahead and
>decided to publicize our email address. We can be reached directly
>now at 74130.212@CompuServe.com
>
>Our web page site is <http://www.mvangel.com/ten-tec>
>(still under construction, but coming slowly along)
>
>Hope to see you on for the NAQP CW contest this Saturday. Good chance
>to pick up some states for your QRP quest. I'll be on from home this
>time rather than the Ten-Tec station.
>
>73, Scott Robbins KY2P
>
>Also say hello to the QRP-L list from us (or forward this message if
>you like) - we are still tinkering with the QRP CW xcvr kits and
>expect to see them around October.
>

dit dit

Chuck Adams (K5F0 CP-60) adams@sgi.com
K5F0 TMPS 1995 Qs=222 States=46 Confirmed=127 DX=04 (0.95W)
K5F0 TMPS 1996 Qs=077 States=32 Confirmed=27 DX=04 (0.95W)

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Bob Hirsch" <bobh@p3.net>
Subject: [2010] vanity call applications
Message-ID: <199608021643.MAA29027@p3.net>

I answered this for Scott and then realized I should have sent it to
the list for others to see as well:

> Can someone please clarify something for me? One the 610V
> application package that I have it says to send my \$30 and
> paper work to the following:
>
> FCC
> c/o Mellon Bank
> 525 William Penn Way
> 27th Floor, Room 153-2713
> Pittsburgh, PA 15259
> Attn: Wholesale Lockbox Shift Supervisor
>
> In the announcement for GATE 1A the address is different: FCC
> Amateur Radio Vanity Call Sign Request P.O. Box 358924
> Pittsburgh, PA 15251-5924
>
> Are they using different addresses for each GATE?
>
> 73 Scott AA8SM (waitng on GATE 2)

Hi Scott --

I was confused about the same thing so I called the 800 line at the FCC. Here's the scoop:

If you are going to send it regular mail, then it goes to the PO Box address.

If you are going to send it via one of the express carriers, they won't deliver to a PO Box so:

The FCC says to put it in an envelope with the PO Box address on it and then put THAT envelope in the carrier's envelope and address it to the street address.

=====
73 de Bob, AA30N

No Code, No HF....Know Code, Know HF!

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Phil Sikes" <psikes@whidbey.net>
Subject: [2003] VLBA
Message-ID: <199608021556.IAA04616@islander.whidbey.net>

Boy, when is Norcal going to kit one of these? I can hardly wait for the postman to start delivering the boxes! Thanks for the write up, it was very enjoyable and educational reading!

72 - Phil
Amateur Radio Station
KJ7NS
ARCI 9196:NWQRP 412:QRP-L 528
email: psikes@whidbey.net

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [2011] Web Page
Message-ID: <199608021847.SAA04925@mail.enterprise.net>

A bit more stuff added including a little bit on the MFJ Antenna Analyzer. Please let me know how you receive the pictures, from my new scanner and Nikon SLR.

Also a new homepage or two to check out!

The Hints and Tips page is back, should have the bit about powering the 49er on it.

Let me know what you think!

--

Frank G3YCC
Ham Radio QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [1985] Re: 14060 and so on...
Message-ID: <Pine.SUN.3.90.960801233735.13404A-100000@vortex.sage.dri.edu>

Hi Alan,

Soon after posting that, I stopped to think about what I am doing with the system of cloud seeding generators here at work.....I'm using packet via VHF FM!

Sometimes the light just doesn't come as soon as you flip the switch! :-)

I'm off to WIMU96.....will see you all when I get back.

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: kd7s@psnw.com (Bill Jones)
Subject: [1994] Re: 2nd try: Need help on poly var caps
Message-ID: <199608021423.HAA08266@psnw.com>

Roy,

Nobody responded to your request for info on these caps because nobody has a definitive answer. Different manufacturers use different pin-outs and there is no universal standard. I have used these caps in the past and the ONLY way I've been able to figure out what pin goes to what is to measure the capacitance with a bridge.

You may discover that there are actually four capacitors inside the poly enclosure. One will be pretty close to 365 pF, one should be around 165 pF and the other two are trimmers (probably around 5 pF each) paralleled with the bigger units. The trimmers were used for alignment.

I'm not sure where you live but there may be someone in your area who has an RLC bridge or capacitor checker. Why not put the word out on your local 2-meter repeater and ask? If you come up empty handed, mail them to me and I will measure them and mail them back.

And yes, we ARE interested in helping when we have an answer.

>Still haven't gotten a single response to my plea for help on figuring out
>the little poly variable caps from transistor radios. Guess I could just
>start soldering, but surely some of u old SLT builders could tell me how the
>six tabs (2 are common) are connected to produce 2 sections.

=====

Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com

=====

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Mike Robinson <miker@cc.com>
Subject: [1997] Re: Aluminum Stock for Antennas
Message-ID: <9608021441.AA08545@voder.nsc.com>

Texas Towers also sells great aluminum tubing for antennas. I bought 6 lengths of 6' starting at the smallest diameter. If you look at the chart in their ad in QST you can walk right down the diameters and build a collapsable vertical.

After receiving the tubes, I cut a slot in one end of the 5 larger lengths and picked up 5 hose clamps in descending sizes from about 1" to 1/2".

It collapses to a 6.5" length. I found that I could expand it to 33' while laying it on the ground then standing it up. It is strong enough to do that but I didn't feel comfortable with it. So by starting with it in a vertical position and raising each length successively, it would go the 33' without strain.

Then a hose clamp at the bottom for the center of the coax. clip a 33'+ wire to the braid for a counter poise. Voila' and instant vertical. Lean it against a tree or guy it at a mid point. Very easy. For permanent installation, I recommend guying it at 2 or more heights.

=====
7.3 de Michael AA0UB miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [1990] Re: Chipped a ceramic disc cap, what would you do?
Message-ID: <Pine.3.89.9608020836.A1704-0100000@imc220>

On Thu, 1 Aug 1996, Scott Rosenfeld NF3I wrote:

> In typical NF3I fashion, I picked up a Mirage 30 watt 2m amp for my

<snip>
> against a ceramic disc cap (small) and chipped a 1/8" piece of it off.
>

If you can't "see" the ceramic internals of the cap I'd leave it go. The only other thing I would do is put a drop of candle wax or something over the chip. I'm not sure what that tan coating is made of, but its there to protect the "real" cap inside, keeping out moisture and such. Sounds like a bypass cap and not "too" critical to operation. Of course if it soaks up some water, look out! You could let the smoke out of the finals, and as we all know, all our electronic toys run on smoke. Let it out and they don't work anymore!

-- Christopher Cartwright, Tech. Engineer		...our chief weapons are fear,
-- Voice 301.295.0809 N3XRV		fear and surprise, and nice
-- Mail dsc3cjc@imc220.med.navy.mil		red uniforms, oh damn!!
-- ccart@erols.com		-- Monty Python

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Stanley Wilson <microres@crl.com>
Subject: [2014] Re: Equipment calibration
Message-ID: <Pine.SUN.3.91.960802120928.7462A-100000@crl9.crl.com>

Frequency calibration:

If you are reasonable close to a high power commerical AM station you have an excellent freq source. It will be within a few cycles (few in very small letters). You will also be able to pick up several of it's harmonics. A simple TRF stage will give you more than enough signal for your counter.

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Carl S. Littlejohns" <carl@ambrosia.demon.co.uk>
Subject: [2015] Re: GQRP - Re: Tor.zip
Message-ID: <32135d7a.5232155@post.demon.co.uk>

Re. your email of Thu, 1 Aug 1996 18:56:48 +0100
>As I haven't hit on the way to put this thing on so you can down load =
it,

I think you just write a reference to it s if it were an html

page, but put the file name instead don't you?

Download my file (or something similar)
Carl gw0tqm@ambrosia.demon.co.uk GQRP 9107
<http://ourworld.compuserve.com/homepages/csl/gw0tqm.htm>

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: lee@radioadv.com (Lee Richey)
Subject: [2011] Re: Lab test postings
Message-ID: <1.5.4.32.19960802170300.0067682c@radioadv.com>

>on my Sierra and NC-40A were suspect with an MDS in the -130dB
>range....the chip won't go that low.
>Which proves that even the "big boys" can misinterpret data or misread a
>dial calibration.
>

I think the Sierra and NC-40A use a '602 first mixer. If that is true then depending upon their circuit design they are quite capable of something in the range of -137dbm MDS and 81 or 82 db two-tone dynamic range.

A hypothetical example follows:

Input bandpass filter -3db gain. (3db NF)

First mixer, 12db gain, 6db NF, -10dbm input intercept. (I think this is close to the real numbers for a '602 but I could be off a little as I'm going from memory here)

IF filter, 500hz bandwidth, -6db gain. (6db NF)

Detector, 12db gain, 6db NF, -10dbm input intercept. (Another '602)

The above configuration delivers calculated performance as follows:

Total system gain - 15.0db.
Input intercept -14.0dbm.
Output intercept 1.0dbm.
System noise figure 9.9db.
MDS -137.1dbm.
Two-tone dynamic range 82.1db.

Note! These are pretty nice performance figures for a very simple, low

power, receiver.

Further, I think they are in line with the measured performance of the NN1G rig described in QST some time ago and the NC40A described recently.

However not all '602 receivers are created equal and if a particular rig does not meet the above performance numbers it does not necessarily mean it is inferior to one that does. The designer may, and probably will, deviate from the above listed parameters in an effort to reach certain design objectives. For example, he may want to reduce the MDS to increase the input intercept. In fact, on our HF bands, especially the lower bands, a MDS of -137dbm is usually not needed because of atmospheric noise. By reducing the MDS and increasing the input intercept, a more useful receiver results.

The point is, '602 designs can be very effective.
(As if we didn't already know that :-)

-Lee Richey WA3FIY-

Lee@radioadv.com

<http://www.radioadv.com>

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Stanley Wilson <microres@crl.com>
Subject: [2013] Re: Lab test postings
Message-ID: <Pine.SUN.3.91.960802121645.7462C-100000@crl9.crl.com>

Lee have you looked at the new Analog Devices AD831 (I think that is the correct number do not have my data book handy). I do not like the package (PLCC) but specs look like a real winner. de stan ak0b

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2005] Re: Lab Tests, my vote (for what it's worth)
Message-ID: <Pine.SUN.3.94.960802115149.16178C-100000@access1.digex.net>

Thanks-you Paul Harden for your Lab Test posts!

I guess the folks who don't want to see them are:

Manufacturers (which I doubt)

designers (I also doubt), or

builders (who don't understand, or don't want to know?)

In any event, having someone do tests and publish the results is a wonderful service to all of us, manufacturers, designers, and builders! Those of you who can not see this can simply by-pass, delete, or ignore the postings of this nature that hurt your feelings. I for one vote to extend my congratulations and welcome to such information!

I have written about antennas in the past & been jumped on for over simplifying and ending up saying something wrong. Now, I don't mind being corrected, in fact I welcome it. But sometimes the attitude of those posting a correction could be a little kinder.

Look for my latest antenna posting, Dipoles, SWR, & Coax. Let's see who crawls out of the woodwork to answer, hi.

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Douglas L. Datwyler" <datwyler@mail.aros.net>
Subject: [1992] RE: mini-log
Message-ID: <320206A0.7F8A@mail.aros.net>

That might of been helpful on the mountain top during Varsity "On Target" a couple of weeks ago. Probably lighter than the clip-board I lugged to 10,100 feet.

Douglas L. Datwyler WR70
datwyler@aros.net

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: jgann@mindspring.com (Alvin G. Gann)
Subject: [2001] RE: Need help locating SBL-1.
Message-ID: <199608021542.LAA08378@borg.mindspring.com>

Robert Gobrick wrote:

>Hi Jim,
.....
>By the way -
>

>Dan's Small Parts
>Box 3634
>Missoula, Montana 59806-3634
>1-406-258-2782
>
>has SBL-1 for \$6.50
>
>Cheers 73/72 Bob V01DRB/WA6eRB

.....

I just received an order of SBL-1's from Dan's Small Parts. They are now on sale for 2/\$9.00 which matches the quote in another post of "less than \$5" from the manufacturer.

I have no connection with Dan's Small Parts except as a very satisfied customer. BTW he has a web site with an on-line catalog at <http://www.fix.net/dans.html>

Just thought you'd like to know. 72 --Jerry W1UI

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [1995] Re: Portable Receivers
Message-ID: <Pine.3.89.9608021049.A1704-01000000@imc220>

On Fri, 2 Aug 1996, Bob Marsh wrote:

> I've been looking at the new Radio Shack DX-394. Does anyone have any
> experience with this puppy or the DX 390? It only draws 450 ma, but I don't
> know about performance. It does have SSB and CW modes, unlike the DX-390
> which has a BFO. (It's also twice as expensive, though).

Hi Bob,

I've got a 390 and it does seem to do a good job for the money (if you get it on sale \$169). The first one I had was dead out of the box but there was no problem exchanging it. Seems that the input FET (JFET?) on these things is fairly static prone and fairly easy to kill, but that's another story. I was surprised how long the thing ran on 4 D cells and now have Nicads in it, battery life is excellent.

The BFO moves through about 300 degrees and is a little too touchy for my liking, but usable, and the narrow/wide settings make a noticeable difference but narrow isn't all that narrow. I added the DSP processor from RS when they dumped them for \$35, it's not that great on SSB or noise but does a good job for CW. Trouble is the BFO can move the signal out of range of the DSP even if you only move it a hair. Like I said, a little to

(physically) sensitive.

Overall, for the \$200 I have in it, I'd rate the setup a good value for the money. I'm not much of a fan of RS but if you get it and don't like it, you can always take it back for a refund, just tell them it's the wrong color :>

```
-- Christopher Cartwright, Tech. Engineer    | ...our chief weapons are fear,  
-- Voice 301.295.0809      N3XRV             | fear and surprise, and nice  
-- Mail dsc3cjc@imc220.med.navy.mil         | red uniforms, oh damn!!  
--      ccart@erols.com          |      -- Monty Python
```

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [1988] Re: PVC cleaning
Message-ID: <Pine.SOL.3.94.960802065011.4998B-100000@utkux4.utcc.utk.edu>

On Thu, 1 Aug 1996, David Adams wrote:

```
> Greetings! As our antenna work has, I'm sure, made us all experts  
> in dealing with pvc, I have a question...PVC from the hardware store  
> is ugly...but ugly...all that red and blue writing...those bizarre  
> brown stains...what do you guys use to clean it up? I use it for  
> bird stands as well as antennas and have yet to find a way to make  
> nice shiny pvc...any suggestions?  
>  
> 73 de dave, n9uxu  
Dave,
```

Glad to see someone else uses PVC to support birdhouses (saves nailing to trees and does not rot like wood posts). Also makes good rose arbor--get glue and Tees and be inventive.

My solution is brute force: sand paper. Start with 60 or 80, and when the worst print is gone, go to 150 (or finer) to smooth the grooves.

2nd solution: turn the print side toward the neighbor's yard.

For antennas (booms, etc.), I leave the print--helps in aligning parts, joints, etc.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Brian Cieslak <bcieslak@merge.com>
Subject: [1991] Re: PVC Cleaning
Message-ID: <199608021313.IAA06234@world.merge.com>

Hi dave...Cleaning the PVC is pretty tough and you probably would be disappointed with the results...I Just lightly sand it down then spray on a light coat of gloss white and it looks like a million bucks.

I used This method when building my radio telescope antennas and it looked great when I was done.If you want to see what it looks like check out our web Page:

<http://www.cc.edu/physics/radtel01.html>

Brian Cieslak
AE9K

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [2002] Re: PVC cleaning
Message-ID: <199608021528.LAA10580@mime4.prodigy.com>

Carb Cleaner or Brake Cleaner works easier....just wipe it off. But read WARNING label. Use outdoors!
Floyd NQ7X Phoenix ScQRPion

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: chuckolson@juno.com (Chuck Olson)
Subject: [1984] Re: solar panel
Message-ID: <19960801.233145.4807.0.chuckolson@juno.com>

On Thu, 1 Aug 1996 23:30:39 -0400 "Steve O'Lear" <solear@tir.com> writes:

Steve -

>charge up a gell cell. Jameco had one advertised for \$24.95. A nice 12

I've seen this advertised, too - did they do a good job of packing it for

shipment?

>leads, no solder pads, no instructions. The thing looks silvered on

I have a couple of the amorphous solar panels from All Electronics. These are 6" x 6" panes of purplish glass. The panels came with 2 u shaped brass plated clips about an inch long. I have since thrown the instructions away, but basically you gently scrape away the clear coating over the silvered backing. This is done on the edges in parallel with the long strips - the long strips are the individual solar cells (diodes). You then solder wires to the clips, bend the clips so that they'll fit tightly over the edge of the glass and then install them. I'm not sure if the Jameco panels are similar enough in construction to do this or not - if they are blue and crystalline then they aren't amorphous.

Jameco is pretty good on support - why not call them? Maybe they just forgot to include the instructions.

Best Regards,

Chuck

WB9KZY

Washington Island, WI

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996

From: ka0yos@arn.net

Subject: [1983] Re: Soldering Aluminum

Message-ID: <199608020443.XAA09592@arnet.arn.net>

At 12:18 PM 8/1/96 -0400, Glen Leinweber wrote:

>A recent thread here suggested that aluminum could be

>

>

>

> I'm not saying it can't be done successfully,

>but its tricky, requiring knowledge of the

>grade of aluminum (2S, 3S and 4S are OK).

> For structurally strong joints, don't do it:

>inert-gas welding is the alternative.

>

>Some data from "SOLDER...its fundamentals and usage",

>Clifford L. Barber, Kester Solder company, 1965

>

In general soldering is not the way to go for strength! Welding will always out perform it.

I do not work for "Solder It", but I would to point out it came on the market DECADES after 1965. Also Kester is a competitor that I don't think offers a product to solder alun. (Maybe they haven't figured it out yet).

72,
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [2006] Re: VLBA
Message-ID: <199608021618.KAA21569@zia.aoc.nrao.edu>

>Boy, when is Norcal going to kit one of these?

Looks like the cat is out of the bag. Doug Hendricks and I are working on a QRP version of the VLBA for the next NorCal kit. Doug's got some great ideas on how to hold the cost down to under a million bucks! Stay tuned -hi.

72, Paul NA5N

From owner-qrp-1@Lehigh.EDU Fri Aug 2 23:12:20 1996
From: rright@primenet.com (Roger Hightower)
Subject: [2020] Re: Why do we do what we do?
Message-ID: <199608030305.UAA21139@primenet.com>

At 10:19 PM 8/1/96 -0700, Dan Puckett wrote:

>Hey gang,

>

> This question may reveal a certain amount of operating naivete but, how did the 40m QRP frequency get to

>be 7.040? Or any of the other frequencies we use? The reason I ask is, over the last year or so I have

>read many of the gripes about QRO ops and data ops screwing up "our" frequencies. On 80, 40, 15, and 10 there

>is a relative safe haven just a few kc higher in the Novice bands.

>

> This seems a good place for the QRP op to set up shop. There are several advantages. No data transmissions

>to deal with. Everybody can play. The Fox hunt would not have to bounce
back and forth. The whole band runs
>lower power than the band as a whole.

>

This makes sense to me. Using the Novice band can only have the good effect
of helping folk increase their code speeds, and make the rest of us more
aware of the need to sometimes back off the speed to make a contact. It
surely might help to increase participation in the fox hunts.

72/73, de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383